

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 January 2004 (29.01.2004)

PCT

(10) International Publication Number  
**WO 2004/009826 A2**

(51) International Patent Classification<sup>7</sup>: C12P 7/00

Edwin [CA/CA]; 3322, place François-Baillargé, Ascot,  
Québec J1K 3B4 (CA).

(21) International Application Number:  
PCT/CA2003/001100

(74) Agent: OGILVY RENAULT; Suite 1600, 1981 McGill  
College Avenue, Montreal, Québec H3A 2Y3 (CA).

(22) International Filing Date: 22 July 2003 (22.07.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2,395,622 22 July 2002 (22.07.2002) CA

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (*for all designated States except US*): UNI-  
VERSITÉ DE SHERBROOKE [CA/CA]; 2500, boul.  
Université, Sherbrooke, Québec J1K 2R1 (CA). UNI-  
VERSITÉ LAVAL [CA/CA]; Cité Universitaire, Québec,  
Québec G1K 7P4 (CA). RIVAL S.E.C. [CA/CA]; 550, rue  
Sherbrooke Ouest, Bureau 100, Montréal, Québec H3A  
1B9 (CA).

**Published:**

— without international search report and to be republished  
upon receipt of that report

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): TREMBLAY, Ré-  
jean [CA/CA]; 104 du Parc, Grande-Rivière, Québec G0C  
1V0 (CA). PERNET, Fabrice [CA/CA]; 71, rue Penouil,  
C.P. 618, Carleton, Québec G0C 1J0 (CA). BOURGET,

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: PROCESS FOR INCREASING THE YIELD OF LIPID AND OMEGA-3 FATTY ACID IN SEAWEED CULTURE

(57) Abstract: The present invention relates to a new method for producing polyunsaturated fatty acids from algae. The method comprises the step of applying at least growth-limiting factor to an algae culture, causing growth arrest of said algae culture and production and stocking by algae in culture of polyunsaturated fatty acids.

WO 2004/009826 A2